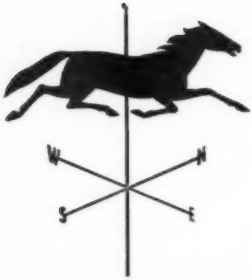
ASBESTOS

MAY 1952



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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

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PHILADELPHIA, 7. PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*

A. S. ROSSITER, *Editor* E. E. COX, *Circulation Manager*

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AMPHIBOLE ASBESTOS AND ASBESTOS TILE

Across our desk come rumors, but fairly substantiated that Amphibole Asbestos is being used in the making of Asphalt Tile, and to an extent that the use of Chrysotile Shorts for that purpose are feeling the effect.

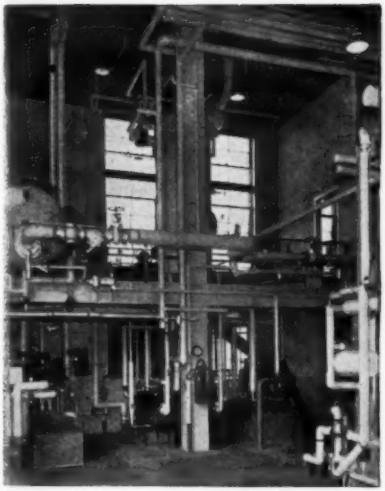
We would like to know more about it. Most of you probably know that there are numerous kinds of amphibole but the uses of amphibole up to the present time have been practically confined to a definite few purposes: filter fibres, roofing paints and coating of welding rods, to mention some of the most important.

So few in fact, that no one has bothered to sort out the kinds of amphibole and label them. Therefore we may get a hard, brittle type, or a soft, more or less fibrous kind. And there is pure white amphibole and that discolored or yellow.

Which kind is most suitable for asphalt tile? Is much treatment required or can it simply be crushed and pulverized? Would a longer fibrous type be preferable to a sandlike type? Can a straight amphibole be used or is it preferable to mix it with one of the shorter chrysotile grades? Or conversely can amphibole be used for the purpose of cutting down the percentage of chrysotile, thus cutting the cost?

One man to whom we talked tells us that the amphibole is more expensive ton for ton than the chrysotile. That might easily be, because there are few highly developed amphibole deposits and those which are developed have been geared for certain set purposes.

We would like to know the answers to these questions as well as to know whether amphibole is actually being used in asphalt tile in quantity, by whom it is being so used and the location of the mine or mines furnishing the material? Can any of our readers tell us? Any interesting information uncovered will be published in later issues.



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MILLING ASBESTOS ORE

This is the third installment of the article by W. E. Sinclair, M.I.M.M. (consulting Mining Engineer). The first and second installments appeared in our March and April 1952 numbers.

Conditioning Machines and Screening.

Besides the introduction of new crushing machines in the experimental field, as suggested by the Aero-fall and the Claasens Impactor, there has been a great deal of experimental work, by many large asbestos producers, designed to produce machines which suit the special conditions in their own mills.

These machines vary considerably in name and appearance, but in general the principle incorporated in most is somewhat similar. The basic design can be said to resemble closely the original machine known as the fiberizer, altho they may be called Jumbos, Conditioners, Cyclone-openers, and so on. The principle aimed at in all these is to introduce an opening-up medium in series thruout the mill, to free the fibre in a crude condition and to avoid the same treatment inevitable in the usual hammer mill process.

The fiberizer or conditioner is an essential unit in any plant designed to produce long fibre since obviously it would be unwise to subject ore containing long fibre to the severe action of hammer mills or similar plant. Hard pieces of ore which have withstood the repeated gentle action of the fiberizer to release the contained asbestos must be sent eventually to the hammer mill section of the plant for treatment.

Correct and adequate screening is an important part of every mill. No screens or screening system can be effective, however, unless the plant design, and more particularly the crushing section, is absolutely efficient. The separation of the asbestos from the gangue cannot be achieved by screening at all, unless the ore is adequately reduced by crushing.

It is a wise policy to introduce a screening medium into the flowsheet after every crushing unit. Methods of screening must vary in different mill designs, according

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ASPHALT AND ASBESTOS BUILDING MATERIALS

to the conditions pertaining and the class of ore.

There is a wide choice of screens and methods of operation to suit these varying conditions.

As a general rule it may be said that three main types of screens are in common use. First, a punched steel revolving screen for sizing the product after primary crushing, second, a dusting trommel for the removal of fine grit after each successive crushing unit and finally the shaker table for cleaning and spreading the fibre preparatory to its being air-lifted to the cyclones.

The cylindrical type of trommel screen was never very effective as an efficient screening medium because of the natural tendency of fibre to assume a rolling and "balling" action in its line of travel round the screen. To overcome this, the introduction of the hexagonal trommel has proved a most valuable screening medium. These screens are made from 10' to 12' long, 6' wide at the delivery end and 3' wide at feed end and made to revolve on a horizontal shaft at about 15 r.p.m. An extra wide screening area is obtained and the material does not travel round the periphery of the screen but is thrown about from one panel to the next.

Shaker screens are of many types, too numerous to mention. The most common in use in asbestos mills today are probably inclined single or double-decker screens operated by eccentric drive gear. It has frequently been pointed out that this design is an unsatisfactory medium for asbestos, because of the jumping or bouncing tendency of the asbestos on the table. This action causes the upending of any fibrous needles that may be released and the loss of valuable fibre thru the screen. Wear and tear on these screens is usually heavy.

Many years ago, RuKeyser suggested an improved method of operating these shaker screens by the use of a cam and horn to move the table to and fro in decisive jerks in a definite plane, instead of the eccentric motion. Up-ending is avoided because the fibre travels horizontally along the line of direction of movement. A particularly interesting point is that this line of travel may be either downwards or upwards at an angle, that is, the screen

ASBESTOS "Shorts" and "Floats"

prevent checking and cracking

These shorter length Johns-Manville asbestos fibers have proved to be vital ingredients of auto underbody coatings. They provide proper body . . . prevent checking and cracking . . . help the coating resist the impact of flying stones. And they contribute to fire safety because asbestos cannot burn or support combustion.

In other products such as adhesives, asphalt tile, texture paints, friction materials, plastics . . . asbestos "shorts" and "floats" serve as fillers, extenders, conditioners, reinforcers, and heat-resisting agents.

If you would like further information about the various uses, properties and classifications of these versatile forms of asbestos, write to address below for Brochure AFD-4A.

JM

Asbestos Fibre Division
Canadian Johns-Manville Limited
814 Sun Life Bldg. (Telephone: UN-6-9701) Montreal, P. Q., Canada

may be up-ended to insure the effective screening out of grit and dust while the fibre travels along upwards to the delivery end of the screen.

Aspiration and Grading.

The removal of the fibre released during the various stages of crushing and screening is achieved in most mills by the use of suction fans which deliver the asbestos into cyclone collectors. This procedure is carried out at every point in stage-milling where fibre is released and can be conveniently removed from the circuit.

In some plants suction hoods are arranged to lift fibre in various grades and to deliver to individual collectors. Otherwise, all fibre recovered from the various airlifts thruout the plant is ultimately cleaned and graded in a special section before bagging for shipment.

Final cleaning and grading may be done in one of two ways, viz. either by means of aspiration in fibre collectors, or by passing the fibre thru grading trommels.

The general process of grading in different mills depends entirely on the lengths of fibre being treated or on the class of fibre and the system of grading practiced. In milling "Amosite" or the "Blue" asbestos fibres, the grading system is entirely different from that commonly recognized as standard chrysotile practice.

Chrysotile grading may be briefly classified as follows:—

No. 1—Crude:	Fibre plus ¾ inches in length
No. 2—Crude:	Fibre ⅜" to ¾" in length
Group 3	Spinning Grades
Group 4	Shingle Grades
Group 5	Paper Grades
Group 6	Stucco-plaster Grade
Group 7	Shorts

In the last five groups, there are a number of different grades, each determined according to results obtained on the Canadian Standard Test Box machine.

Most mills aim to standardize their production on certain fixed grades, but many produce a wide margin of several sub-divisions of the main grades.

There are many mills to-day, however, which pro-

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Since 1873 Carey has been manufacturing products of which asbestos is an integral part.
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Asbestos Heat Insulations and Cements
Asbestos Packing • Asbestos Roofing Felts
Asbestos Paper and Millboard
Asbestos Prefabricated Ducts
Asbestos Shingles and Siding
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duce a general run-of-mill grade of fibre, only, quite regardless of recognized standards. This is the result of the exceptional demand for asbestos which has encouraged the production of fibre of no definite grade or classification.

This applies not only to chrysotile asbestos but to the production of "Amosite" or "Blue". In normal circumstances, however, the grading of these fibres is based essentially on length, color and quality, judged by visual inspection.

In the Cape Blue field, the six main grades are classified according to the following lengths:—

X Grade	1/8 inch
S Grade	1/4 to 1/2 inch
A Grade	1/2 to 3/4 inch
B Grade	7/8 to 1 1/4 inch
C Grade	1 1/4 to 1 3/4 inch
D Grade	Over 1 3/4 inch

The classificiation of Amosite and Blue asbestos in the the Pietersburg and Lydenburg fields in the Transvaal is roughly based on the same scale of fibre lengths, but different letters or combination of letters and figures are used by the various Companies to designate the different grades. Alas, it must be stated that there is mostly a complete absence of any attempt at uniform standardization or classification of fibre grades in these fields. Instead, the mines produce one general run-of-mine or run-of-mill grade which includes all the varying lengths of fibre produced.

Editor's note. The fourth and last installment of this article on Milling Asbestos Ore will appear in our June number and will comment on flowsheets used in the South African field.

. . . —

Bore — A person who talks when you wish him to listen.

. . . —

You know, you'll never get that dizzy feeling from doing too many good turns.

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ASBESTOS-CEMENT PIPE - A Little History

(This data has been taken almost verbatim from the April 1952 issue of J-M Stockholders News)

The use of Asbestos Cement pipe of all kinds has grown tremendously in the last several years.

Introduced to the United States in 1929 (it was previously made and used in Italy and other European countries) today TRANSITE* pipe is being used for a wide variety of purposes in industry, in the home, on farms and in thousands of municipalities.

The funds invested in the development of TRANSITE pipe have paid a real return.

Steady improvement thru research and well-planned selling efforts by Johns-Manville have broadened the uses and increased sales of TRANSITE pipe tremendously.

Total sales of this line of products have already amounted to $170 million.

Past experience has indicated that even during bad business times government work programs provide a healthy demand for TRANSITE pipe for use in municipal, state and federal construction projects.

Thousands of miles of TRANSITE pipe have been installed in the United States and territories and in Canada for use as underground water mains, sewer mains, supplemental irrigation lines, house connection sewer lines, industrial process lines, electric conduits, flues, ducts, vents and stacks.

To keep pace with the ever-increasing demand for TRANSITE pipe, Johns-Manville has expanded production facilities considerably since manufacture of this product was first put on a commercial basis in the United States at J-M's Waukegan, Ill., plant in 1930.

Today TRANSITE pipe is being produced in four J-M plants in this country and one in Canada. Further expansion of production facilities will start soon at the Canadian plant, which is near Toronto.

TRANSITE pipe has made possible nearly 2,000 new jobs for the plant workers, salesmen, field men, technicians and office workers needed by J-M to handle the manufac-

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turing, selling, engineering, research and administrative phase of this product.

At J-M's Research Center, near Manville, N. J., a TRANSITE pipe machine for experimental production is in operation and J-M's scientists are at work constantly seeking new ways to use and improve this versatile product.

Research has been carried on since 1929 when Johns-Manville acquired the rights from an Italian company to manufacture an asbestos-cement pipe in the United States and Canada. Pipe of this material had been in use in Europe for a number of years for water and sewerage facilities, vents and other purposes. Because of its unusual resistance to many forms of corrosion it held promise of being more efficient than other pipes used for similar services in this country.

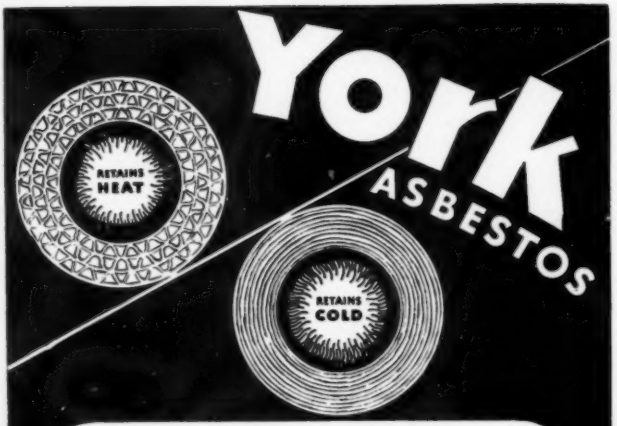
Made from a mixture of asbestos fibres, cement and silica, TRANSITE pipe is formed on a highly polished steel mandrel. As this mandrel revolves, the mixture is "built-up" on its under pressure, into a tough, dense, homogeneous structure. The highly polished mandrel imparts a smooth interior surface to the pipe giving it an unusually high flow capacity. The pipe then undergoes a special curing operation, resulting in a finished product of great strength, uniformity and durability.

Used in the water systems of thousands of municipalities in every state in the union, in Canada, and in U. S. bases thruout the world, TRANSITE pipe has proved itself over a wide range of service conditions. It is now playing a vital part in the construction and expansion of an increasing number of modern water works projects.

Virtually every manufacturing or processing plant requires pipe for water and waste lines and for production itself. As plant engineers have learned of TRANSITE pipe's advantages, installations of the product have become more and more numerous thruout industry.

In the pulp and paper industry, where a single plant may require many miles of pipe, TRANSITE pipe fills an important need because it resists corrosion and conveys liquids without causing objectionable rust and discoloration.

In the power industry TRANSITE electrical conduits are



BETTER

BECAUSE THEY ARE MADE BETTER

York pipe coverings are manufactured with a white asbestos felt wrapper under the canvas or glazed jacket. The asbestos wrapper keeps the section compact, adds to the efficiency and the strength of the pipe covering and gives the finished job a clean white smooth appearance.

Write for illustrated catalogue sheet.

YORK INSULATION CO., Inc.

HILLSIDE, NEW JERSEY, U. S. A.

Manufacturers of the Quality Line in

• AIR CELL PIPE COVERING, SHEETS & BLOCKS, BOILER JACKETS • FROST-PROOF PIPE COVERING • WOOL FELT PIPE COVERING • ANTI-SWEAT PIPE COVERING

used in great quantities because they are imperishable, incombustible and possess the unusual property of dissipating conductor heat, thus keeping cables cooler and rendering them more efficient.

TRANSITE pipe benefits the farmer. To overcome the effects of dry periods, many farmers are turning to supplemental irrigation. TRANSITE pipe provides an efficient and durable underground irrigation system and there is great demand for it.

TRANSITE house connection pipe is used for conveying sewage from homes and buildings to street sewers and septic tanks. Recently introduced by Johns-Manville it meets exacting requirements for efficiency, durability and economy in this field. Within the home, TRANSITE flue pipe is used extensively to vent gas appliances.

During the early phases of World War II, when the country was engaged in an all-out effort to construct defense housing projects, army and navy bases, air fields, cantonments, munition plants and war industries, J-M's entire output of TRANSITE pipe was diverted to these projects.

The peacetime market for TRANSITE pipe has barely been tapped. Because of TRANSITE's efficiency and economy it seems certain that the markets already established will continue to grow. New types of pipe developed within recent months include TRANSITE plumbing vent pipe and TRANSITE warm air ducts. J-M's continuous research efforts are expected to discover still other uses for this product.

* Johns-Manville Registered trade-name.

A. S. T. M.

C. Laurence Warwick, Executive Secretary, American Society for Testing Materials, and its administrative head since 1919, died suddenly on April 23, shortly after presiding at a dinner honoring the retiring Treasurer of the Society.

. . . —

Keep cool; anger is not argument.

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MARKET CONDITIONS

GENERAL BUSINESS.

Relaxing of price control of a substantial number of commodities indicates the temporary easing of inflationary pressures. However, the steel situation outcome is almost certain to have a net inflationary effect. Demand for steel and certain other basic commodities has eased somewhat due to spotty conditions in consumer's goods, filling of the defense production "pipe-line" and the general stretch-out of the defense program. While many capital goods producers are still increasing sales and production their earnings are almost uniformly lower because of higher taxes and costs. The attitude of businessmen and investors alike seems to be one of extreme caution in the face of a situation involving so many factors which may be termed "artificial".

ASBESTOS—RAW MATERIAL.

The demand for asbestos remains at capacity levels for practically all grades except those highly dependent on the Building Materials industry.

Groups 6 and 7 show some excess production capacity. The trend, however, particularly in the 7 Group, is definitely on the up grade as we come into the Spring season. (Editor's Note: Readers not familiar with the various groups, refer to Current Range of Price on page 52.)

Short grades are in good supply but spinning and shingle grades are still scarce.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. There has been no indication of any let-up in the demand for Asbestos textiles, particularly cloth, to take care of governmental requirements. Asbestos textile plants should continue to operate at full capacity for the balance of the year.

Numerous inquiries from European countries call for 95 to 100% pure Asbestos Yarns and Cloth, which probably means that foreign manufacturers are unable to obtain high grade crudes. The backlog generally is 3 months; on some items 4 months.

With the quantity of power turbines, marine, indus-

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CHICAGO 4, ILL. ..... **GRANT WILSON, INC.**
141 West Jackson Boulevard

NEW YORK, N. Y. ..... **CONNELL ASBESTOS MFG. CO.**
117 Martense Street,
Brooklyn 26, New York

trial and Navy and Air Force construction now in process, it is quite likely that 1952 will show a new high for total business handled by the Asbestos Textile Industry. Nos. 1 and 2 crudes are still in short supply.

Asbestos Brake Lining. The replacement market has been slightly off on a national basis for the first quarter because of high jobber inventories and poor collections. It is believed that 1952 will top all time record sales in automotive replacement with equipment sales increasing in second quarter and balance of the year. The market is now distinctly a buyers' market with many items selling at depressed prices.

Asbestos Paper. There is little change in the market for Paper and Millboard. *Asbestos Saturated Paper* demand is likely to increase because of the quantity of new industrial construction and re-roofing work. The U. S. Government is a large buyer.

Insulation. High Pressure. This market appears to be stronger with particular emphasis on large pipe sizes and Magnesia Blocks. Because of expansion of industrial work caused principally by the defense program, the heavy demand will exist for the rest of the year. Competition is exceeding keen but it is very difficult to estimate future demand because of government industrial work; at present shipments and incoming orders about equal maximum production.

Insulation. Low Pressure. Current construction will require a large quantity of material. Volume should remain at present levels.

Asbestos Cement Products. Demand for siding is strong, particularly for the glazed type; applicators are doing a large volume of re-siding work on old houses. Colors are becoming increasingly popular. The outlook in this market is good as long as good weather holds—until late fall.

For the first time in a long while the production of corrugated exceeds the demand. The backlog in this material is at present small, but demand will probably increase depending on the availability of steel.

The demand for A - C pressure pipe continues; for

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre

DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

conduit demand is steady; flue requirements are lower because of reduced residential construction.

Asphalt Tile. Asphalt tile is increasing in demand and industry sales are running at about the record 1951 rate. This year's volume should exceed last year's figure of 580,000,000 square feet.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

THE CENSUS OF MANUFACTURES

Legislation enacted in 1948 provides for a Census of Manufactures every five years, the next such census to cover the year 1953. The last Census of Manufactures covered 1947 statistics. Plans for the 1953 census are now being developed. As in the past, reporting forms for this census will include such standard information as number of employees, wages, and salaries paid, cost of materials and supplies, value of inventories, and capital expenditures. In addition, special inquiries will be designed for the products of particular industries.

There was a thoro revision of the inquiries on output of commodities for the 1947 Census of Manufactures, based on a careful review by industry, Government representatives, and other interested users as well as suppliers of statistics.

Maxwell R. Conklin, Chief, Industry Division, Bureau of Census, asks for suggestions and has issued a booklet showing the divisions of the Asbestos Industry on which census information will be collected. We have a copy of this booklet which can be seen at our office, or anyone interested should write for a copy of ("Proposed Product Data on Asbestos") which comes under the Major Group No. 32, Stone, Clay and Glass Products.

It is proposed to collect data on Asbestos-Cement Products; Asbestos Paper and Asbestos-Filled Paper; Asbestos Millboard; Asbestos Textiles; Asbestos Friction Materials; Asphalt Floor Tile; Gaskets and Asbestos Insulations; Insulation Materials Containing Asbestos; Gaskets and Packing including Asbestos Compressed Sheet.

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Canada

(Department of Mines, Province of Quebec)

Tons 2000 lbs.

Production for February 1952	67,350 tons
Compared with February 1951	69,724 tons

Dominion Production for February 1952 is 69,036 tons, a difference of 1,686 tons from the Quebec figure.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2000 lbs.

Production for December 1951	5,893.11 tons
Valued at	£418,284
Production for December 1950	5,336.63 tons
Valued at	£337,175

Africa (Swaziland)

Production for January 1952	2,750 tons
Production for February 1952	2,720 tons
Production for March 1952	2,800 tons

Imports Into U. S. A.

Unmanufactured Asbestos—By Countries

	January 1952 Tons (2240 lbs.)
From Canada	51,211
S. Rhodesia	771
Union of S. Africa	2,057
So. B. Africa	156
U.S.S.R.	98
Other Countries	31
	54,324
Valued at	$4,777,540

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Imports into U. S. A.

By Grades:

Crude No. 1, Chrysotile, Canada	9
Crude No. 1, Chrysotile, S. Rhodesia	36
Crude No. 2, Chrysotile, S. Rhodesia	76
Crude No. 2, Chrysotile, Other Countries	9
Crude, Other, Chrysotile, S. Rhodesia	659
Crude, Other, Chrysotile, So. B. Africa	156
Crude, Blue, Union of S. Africa	571
Crude, Blue, Other Countries	20
Crude, Amosite, Union of S. Africa	1,486
Textile Fibres, Chrysotile, Canada	1,538
Textile Fibres, Chrysotile, Other Countries	2
Shingle Fibres, Chrysotile, Canada	7,637
Paper Fibres, Chrysotile, Canada	6,822
Paper Fibres, Chrysotile, U.S.S.R.	98
Other Fibres, Chrysotile, Canada	35,205
	54,324

Manufactured Asbestos Goods:

	January 1952	
	Quantity (lbs.)	Value
Asbestos Yarn		
Canada	44,320	$ 36,792
United Kingdom	78,210	47,442
Asbestos Packing—Fabric	154	295
Asbestos Packing—Not Fabric	416	291
Asbestos Woven Fabric—Other		
Canada	15,612	20,157
Other Countries	10,492	6,938
Asbestos Cement Products (Not Impreg.)		
Canada	193,686	11,157
Mexico	230,994	14,703
Italy	529,210	33,360
Asbestos Manufactures—Others	....	207
	1,103,094	$171,342

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New York 5, New York

**One of the NICOLET Industries*

Exports from U. S. A,

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	January 1952 Tons (2240 lbs.)	Value
To Europe	454	$124,157
South America	424	110,395
Other Countries	281	67,082
	1,159	$301,634

Manufactured Asbestos Goods:

	January 1952 Quantity		Value
Asbestos Pipe Covg. & Cement	Lbs.	450,938	$ 64,437
Asbestos Textiles & Yarn	Lbs.	29,684	37,053
Asbestos Packing	Lbs.	197,732	176,787
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lbs.	511,262	498,372
Asbestos Bk. Lng. (Woven)	Lin. Ft.	103,653	43,883
Asbestos Clutch Facings	No.	65,619	60,787
Asbestos Brake Blocks	Lbs.	34,851	37,617
Asbestos Construction Materials	Lbs.	1,947,749	224,758
Asbestos Manufactures—Others		....	67,737
			$1,211,431

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	Year 1951 Tons (2240 lbs.)	Value
To United Kingdom	82	$ 43,838
Canada	9	2,746
Mexico & C. America	515	60,399
Europe	3,354	770,395
S. America	5,153	1,453,188
Other Countries	3,653	886,244
	12,766	$3,216,810

Manufactured Asbestos Goods:

	Year 1951 Quantity		Value
Asbestos Pipe Covg. & Cement	Lbs.	4,051,095	$ 453,367
Asbestos Textiles & Yarn	Lbs.	506,925	562,215
Asbestos Packing	Lbs.	1,846,512	1,829,767
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lbs.	6,944,955	6,017,473
Asbestos Bk. Lng. (Woven)	Lin. Ft.	1,034,930	661,474
Asbestos Clutch Facings	No.	1,452,270	935,913
Asbestos Brake Blocks	Lbs.	725,936	680,989
Asbestos Construction Materials	Lbs.	29,513,123	2,526,784
Asbestos Manufactures—Others		....	652,407
			$14,320,389

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HOUSTON 1: Commerce and Palmer Streets
INDIANAPOLIS: 11 E. Washington Street
JACKSONVILLE 6, FLA.: 800 E. Bay Street
KANSAS CITY 7, MO.: 1401 St. Louis Avenue
LOS ANGELES (Maywood): 6316 Walker Ave.

NEW ORLEANS 16: 315-25 N. Front Street
NEW YORK 17: 331 Madison Avenue
PHILADELPHIA 29: 850 N. 48th Street
ST. LOUIS 9: 2176 Branson Ave.
SAN FRANCISCO 7: 445 Brannan Street

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33 South Avenue, Toronto

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Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	January 1952	
	Tons (2000 lbs.)	Value
Crude		
United States	28	$ 28,666
United Kingdom	....	....
South America	....	....
Central America & Mexico	....	....
European Countries	....	....
Other Countries	....	....
	28	$ 28,666
Milled		
United States	17,081	$2,431,214
United Kingdom	1,616	254,271
South America	1,511	255,369
Central America & Mexico	23	2,180
European Countries	2,574	367,561
Other Countries	356	54,023
	23,161	$3,364,718
Shorts		
United States	41,767	$1,876,287
United Kingdom	855	32,195
South America	483	28,288
Central America & Mexico	....	....
European Countries	4,938	356,634
Other Countries	175	12,113
	48,218	$2,305,517
Grand Total—Unmanufactured Asbestos	71,407	$5,698,901
Manufactured Asbestos Goods:		
Brake Lining		$ 51,579
Packing		25,014
Other Materials		65,992
		$ 142,585

FOR SALE OR LEASE

Tremolite asbestos mine near the village of Kobuk, Alaska. Has produced about 50 tons long fibre tremolite. Owner has other interest.

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A NEW FIBROUS ANTHOPHYLLITE

Our mail is always very interesting and frequently we receive letters which contain information of real value and interest to our readers. A letter from Makinyambu Asbestos Mines Ltd., (Location of Mines: Teita Hills, Nr. Maktau) P. O. Box 4932, Ngong, Kenya, S. Africa, which reached us within the last week, comes under this classification.

This firm produces a fibrous anthophyllite (of which we have samples) on which they have been working for some time and find, judging from comments on it and orders received for it, that it must serve some very useful purposes. We will tell you more about it as soon as we have more data. In the meantime, if you can use a fibrous anthophyllite we suggest you contact them.

. . . —

Even if you are on the right track you will be run over if you sit there.

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NEWS OF THE INDUSTRY

Sumner Simpson, Chairman, Raybestos-Manhattan, Inc., Bridgeport, Conn., May 17.

William B. Millar, Consulting Mining Engineer, Silver Bay, N. Y., May 18.

Clifford F. Rassweiler, Vice Chairman of the Board, Johns-Manville Corp., New York City, May 18.

David P. Seaman, Manager, Philip Carey Mfg. Co., New York City, May 24.

W. S. Lang, Vice President, Magnesia-Asbestos Insulation Co., Inc., New York City, May 25.

Stephen Harrison, Owner, Asbestos Service Company, Youngstown, Ohio, May 26.

George V. Hamilton, Owner, George V. Hamilton Co., Pittsburgh, Pa., May 26.

J. H. Mooney, Vice President, Johnson's Company, Thetford Mines, P. Q., Canada., May 27.

Giles Newton, Managing Director, Cape Asbestos Co., Ltd., London, England, May 27.

Stuart H. Ralph, Vice-President and Director, The Flintkote Company, New York City, May 27.

F. E. Schluter, President, Thermoid Company, Trenton, N. J., May 31.

F. H. Shipe, President, Asbestos Covering & Roofing Co., Washington, D. C., May 31.

Charles H. Jackson, President, Turner & Newall (Canada) Ltd., Montreal, P. Q., Canada, June 2.

Phil Ziegenfuss, President & Treasurer, Insulating Materials Company, St. Louis, Mo., June 2.

Norman C. Naylor, President, Union Asbestos & Rubber Company, Chicago, Ill., June 3.

Edward J. Ewald, Vice President, Standard Asbestos Mfg. Co., Chicago, Ill., June 6.

E. M. Railton, Vice President (in charge of Western Division) The Ruberoid Company, Chicago, Ill., June 8.

W. Robert Beldam, Director, Beldam Asbestos Co., Ltd., Hounslow, England, June 8.

H. E. Howell, Vice President, Ehert Magnesia Mfg. Co., Valley Forge, Pa., June 8.

Manley Alsaker, Branch Manager, Kelley Asbestos Products Co., Omaha, Nebr., June 9.

L. L. Collonge, President, The Pacific Asbestos-Cement Products Corp., San Bernardino, Cal., June 9.

• BLUE ASBESTOS

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Walker Jamar, President, Walker Jamar Co., Duluth, Minn., June 11.

Howard Snow, President, Southern Friction Materials Company, Charlotte, N. C., June 11.

Henry Condell, Owner, Asbestos Processing Co., New York City, June 15.

We extend congratulations and best wishes to all these gentlemen on the occasion of their birthdays.

EMPIRE ASBESTOS PRODUCTS, INC.
Celebrates 20th Anniversary

The Empire Asbestos Products, Inc., Atlas Terminal, Glendale, Long Island, N. Y., on April 27th celebrated its 20th Anniversary. Started by Jacob P. Epstein in 1932, in a small building on Jerome Street, Brooklyn, with 2 employees, the firm has grown to one of the outstanding producers of Air Cell and Woolfelt Pipe Covering and other types of low pressure insulations, selling their products in a national market. Today they have a large factory in Glendale, L. I. and another in St. Louis, Missouri employing 50 people.

The employees, on the occasion of the 20th Anniversary, presented a handsome plaque to Mr. Epstein inscribed as follows:

J P E
Presented to
JACOB P. EPSTEIN
President
EMPIRE ASBESTOS PRODUCTS, INC.
As an expression of loyalty, high regard for his inspiring leadership and
in appreciation of his humane and generous characteristics.
THE EMPLOYEES
Apr. 27 1932/1952

JOHNS-MANVILLE
First Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the first quarter of 1952 were $5,508,387, compared with $6,292,995 for the corresponding period last year.

Sales for the first quarter of 1952 were $56,075,789, compared with $57,654,044 for the first quarter of 1951.

Earnings per share of common stock were $1.74 for the first quarter, compared with $1.99 for the first quarter last year.

JOHNS-MANVILLE
Annual Meeting

The annual meeting of Johns-Manville Corporation was held on May 9th at Hotel Roosevelt, New York City.

Leslie M. Cassidy, Chairman of the Board and Chief Executive Officer presided.

Further account of the meeting will be given in our June number.

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LYONS MEMORIAL RECREATION CENTER
A Service Tale

In New Orleans there was the municipally owned Recreation Center consisting of three buildings,—a gymnasium (seating 5800)—an administration building and a locker and dressing room annex.

Fire suddenly broke out in the gymnasium and completely destroyed it but the two adjoining structures altho subjected to intense heat and showered with burning debris, escaped, one without harm and the other with minor damage.

The two buildings which escaped so miraculously, were roofed with asbestos cement shingle. The flying embers burned out harmlessly on the roofs.

The Recreation Center cost $400,000.

The photo shows the scene after the debris was cleared away.

The same story is repeated many times over—buildings roofed with asbestos-cement shingles or sided with asbestos-cement siding stand altho fire may destroy the surrounding structures.

AMERICAN BRAKE SHOE
1st Quarter Report

Shipments for the first quarter amounted to $38,265,652 compared with $37,336,929 in the fourth quarter of last year and $37.745,194 in the first quarter of 1951. Unfilled orders continued to decrease.

Net earnings for the quarter were $1,376,066 equal, after preferred dividends to $1.08 per common share. This compares with $1.37 per share for the first quarter of 1951.

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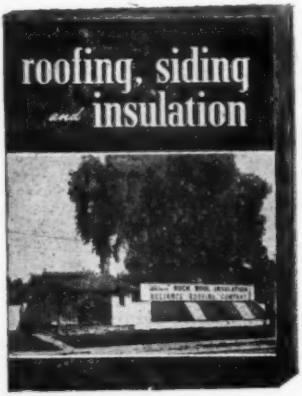

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ARIZONA ASBESTOS PRODUCERS ASSOCIATION

First Meeting

The initial meeting of the Arizona Asbestos Producers was held on April 10th as planned, at the Gila County Court House, Globe, Arizona.

Present were: D. E. Green of Bear Canyon Mining Co., who was elected President of the Association; Barry DeRosé of Apache Asbestos Mines, elected Vice-President; Jack L. Neal of Metate Asbestos Mines, elected Secretary-Treasurer; Louie Rayes of Seneca Mining Co.; Henry Brewer of Fiber King Asbestos Mine; Harry Scott, William Scott and Charles R. Neal of Metate Asbestos Mines Co.; George Kohl of Reynolds Falls Asbestos Mine; and D. W. Jaquays of Regal Asbestos Mine and Canadian Asbestos Mine.

A question and answer session was held with our guest of the meeting, S. R. Zimmerman who was in the district at the time. Mr. Zimmerman is Director of Raybestos-Manhattan Company. A lot of information was received from Mr. Zimmerman regarding grading of fibre and market conditions.

U. S. RUBBER CO. ANNOUNCES

Financial Aid Program to Science Students

A new five year program of financial aid to science students in 11 leading universities has been announced by United States Rubber Company. The new program will provide graduate fellowships in science for 55 students at an approximate cost of $174,000.

In addition to this program the Company has renewed for one year a $1,500 fellowship in physics at the University of Virginia and one in polymer physics at the University of Notre Dame.

CAREY REFERENCE MANUAL

A new Reference Manual produced by The Philip Carey Mfg. Company is already in its second printing. It contains a complete listing of 800 building materials and industrial products obtained from asbestos, asphalt or magnesia. Carey, well-known since 1873, makes many types of roofings, insulations, asbestos boards, paving materials, ducts, paints, sidings and cabinets.

The manual shows Army, Navy, MIL, Federal, ASTM and other specifications, plus their corresponding product. The manufacturer indicates if the products meet, can meet, or do not meet required specifications. All of this information is cross-indexed to provide efficient reference and is recommended for anyone with a spec-finding problem.

Requests for a free copy should be sent to The Philip Carey Mfg. Company, Dept. FRM, Cincinnati 15, Ohio.

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ASBESTOS CEMENT PRODUCTS

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DRYCOR FELT COMPANY

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BIRD & SON

Appoints Woods

Director of Marketing

Bird & Son, Inc., has appointed Howard O. Woods as Director of Marketing. He will be in charge of their advertising and marketing activities.

Mr. Woods was vice president and director of marketing for Towle Manufacturing Co., Newburyport, before joining Bird & Son. He had previously been senior management consultant for McKinsey and Company of New York. Prior to that for 14 years he was with General Electric, part of the time as a division manager.

He holds a B.S. and master's degree in electrical engineering from the Massachusetts Institute of Technology.

OLIVER BOWLES VISITS

Arizona Asbestos Mines

Oliver Bowles, Consultant with the Bureau of Mines, visited the Arizona Asbestos Mines during March. He reports considerable activity, twelve mines being operated in 1951. Arizona has never been a large producer, but a considerable tonnage is now being obtained. Spinning and filter fibre are the most valuable products. The spinning fibre is greatly in demand at this time because it is low in iron and therefore, can be substituted for the Rhodesian fibre used as electric cable covering.

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WAGE RATE CHANGES

Wage rate changes for Asbestos workers (pipe and boiler coverers) as reported in the April number of the Asbestos Worker (published quarterly by the International Association of Heat and Frost Insulators and Asbestos Workers) are as follows:

Albany, N.Y.	$2.64	Los Angeles, Calif.	2.90*
		+7½c W.F.	
Appleton, Wisc.	2.35*	Manitowoc, Wis.	2.35
Austin, Texas	2.66¾*	Minneapolis, Minn.	2.70*
Baltimore, Md.	2.75*	Norfolk, Va., Navy Yard	1.88
+7½c W.F.		Philadelphia Navy Yard	1.92
Effective July 1, 1952		Phoenix, Arizona	2.75
Birmingham, Ala	2.65*	Effective July 1, 1952	
+7½c W.F.		Pittsburgh, Pa	3.00
Charleston, S.C.	1.83	Portland, Oregon	2.61
Chicago, Ill.	2.95	+10c W.F.	
+7½c W.F.		Saginaw, Mich.	2.65
Effective June 1, 1952		San Antonio, Texas	2.66¾*
Columbia, S.C.	2.47½	South Bend, Ind.	2.65½*
Corpus Christi, Texas	2.66¾*	St. Paul, Minn.	2.70*
Cedar Rapids, Ia.	2.58	Texas City, Texas	
Grand Rapids, Mich.	2.65	(Carbide Carbon Chem.	
Green Bay, Wisc.	2.35*	Corp. Maintenance	
Indianapolis, Ind.	2.75	only)	2.39
Jackson, Mich.	2.65	Washington, D.C.	2.90*
Kalamazoo, Mich.	2.65	+10c W.F.	
Lansing, Mich.	2.65	Wausau, Wis.	2.35*
Lo Alamos, New Mexico		Wood River, Ill.	
(Municipal Operation		(Oil Refinery only)	2.31
Maintenance only)	2.47½		

' W.F. (above) means Welfare Fund.

* Negotiated—Pending approval of Construction Industry Stabilization Commission.

. . . —

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. . . —

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An inquiry from out-of-town Insulation Contractors, to take-off and estimate Insulation jobs for projects located in their respective territories but originating from the New York Area will be appreciated.

As an additional service will follow and endeavor to close for those interested.

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ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the commercial & Financial Chronicle. No guarantee as to their correctness)

	Par	April 1952 Low	High	Last
Amer. Br. Shoe (Com)	np	38	40¾	39⅛
Amer. Br. Shoe (Pfd)	100	104½	107	106¼
Armst. Ck. (Com)	np	50	55¼	51
Armst. Ck. (Pfd)	np	97	98½	98¼
Armst. Ck. (Conv. Pfd.)	np	110¾	114½	111½
Asb. Corp. (Com)	np	22	24	22¼
Asb. Mfg. Co. (Com)	1	1⅜	1⅜	1⅜
Carey (Com)	10	17	18½	17⅛
Celotex (Com)	np	17¾	19½	18½
Celotex (Pfd)	20	16¼	17	16¾
Certainteed (Com)	1	15¼	16⅜	15
Flintkote (Com)	np	27¾	32¼	28¼
Flintkote (Pfd)	np	97	101	98½
Johns-Manville (Com)	np	58½	69⅞	69¼
Pabco Products (Com)	np	13¼	15	13½
Pabco Products (Pfd)	100	92	95	94
Ray-Man (Com)	np	41	45	42
Ruberoid (Com)	np	56½	59¼	57⅝
Thermoid (Com)	1	10	11	10⅛
Thermoid (Pfd)	50	45	48½	45¾
Union Asb. & Rub. (Com)	5	12¼	13	12⅜
United Asb. (Com)	1	$3.90	$4.70	$4.10
U.S. Gypsum (Com)	20	107½	111¾	109¼
U.S. Gypsum (Pfd)	100	174	183	183
U.S. Rubber (Com)	10	71¼	81½	73⅜
U.S. Rubber (Pfd)	100	140½	144¾	141

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AUTOMOBILE SALES

	March 1952
Passenger Cars	373,231
Motor Trucks	109,173
Motor Coaches	569
	482,973

In March 1951 a total of 755,022 motor vehicles were sold. In the three months of 1952 the total was 1,293,599.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

BUILDING

The 37 states east of the Rockies showed construction contracts on the rise in March compared with February, according to F. W. Dodge Corporation. March awards of $1,321,254,000 were 49 per cent higher than February and 4 per cent ahead of March 1951. The total for the first three months of 1952 was $3,108,551,000 compared with $3,451,225,000 in 1951.

Non-residential awards in March were $463,276,000 or 54 per cent higher than February but 1 per cent lower than March 1951. Residential contracts at $592,717,000 were 50 per cent greater than February and 3 per cent ahead of March 1951. Public and private works and utilities totaled $265,261,000 or 42 per cent more than February and 19 per cent more than March 1951.

Comparing the first three months of 1952 with the same period 1951, non-residential awards of $1,122,356,000 were down 18 per cent; residential awards of $1,326,876,000 were down 13 per cent; public and private works and utilities at $659,319,000 were up 17 per cent.

„ Tropag "

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Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona		
No. 1 Crude	1,200.00	to	1,500.00
No. 2 Crude	900.00	to	1,000.00
No. 3 Crude	375.00	to	450.00
Canada—	Per Ton (2000 lbs.) f.o.b. Mine		
Group No. 1 (Crude No. 1)	$1,100.00	to	$1,500.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	500.00	to	1,000.00
Group No. 3 (Spinning Fibre)	300.00	to	525.00
Group No. 4 (Shingle Fibre)	150.00	to	200.00
Group No. 5 (Paper Fibre)	100.00	to	140.00
Group No. 6 (Waste, Stucco or Plaster)			77.00
Group No. 7 (Refuse or Shorts)	35.00	to	70.00
Vermont—	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville Vt.		
Group No. 3 (Spinning & Filtering)	321.00	to	348.00
Group No. 4 (Shingle Fibre)	156.00	to	173.00
Group No. 5 (Paper Fibre)	110.00	to	132.00
Group No. 6 (Waste, Stucco or Plaster)			78.00
Group No. 7 (Refuse or Shorts)	37.00	to	68.50

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BOOK LIST

The Asbestos Factbook, 16 pages: Information in compact form on origin, facts, locations, uses of analyses, qualities. 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy.

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each.

Brake Linings of Various Types. By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS." Price 25c per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished products, in plain language, illustrated. 25c a copy.

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AFTERTHOUGHTS

¶ Some drivers are in such a hurry to get into the next state that they get into the next world.

¶ A successful man gathers a fortune which he doesn't need so as to be able to leave it to people who don't deserve it.

¶ That which is past and gone is irrevocable; wise men have enough to do with things present and to come.

¶ A golfer has one advantage over the fisherman; he doesn't have to show anything to prove it.

¶ Are any of our readers interested in the 6F grade of asbestos fibre for use in making Asbestos Floorings? If so, we would be glad to have your names to place on our list of Asbestos Flooring Manufacturers.

¶ The American Society of Heating and Ventilating Engineers will hold its 1952 Semi-Annual Meeting at Spring Lake, N. J., June 16-18, at the Essex and Sussex Hotel. Eleven papers will be presented at three morning technical sessions devoted to heat flow and heat transfer problems, including heat flow thru glass; research in room air distribution; studies on physiological reactions to atmospheric environment; air filtering and air drying.

¶ The American Society for Testing Materials has announced the appointment of Robert J. Painter as new Treasurer of the Society. He succeeds John K. Rittenhouse, who has retired after 43 years of service with this national technical group. Mr. Painter has been on the ASTM Staff since 1931.

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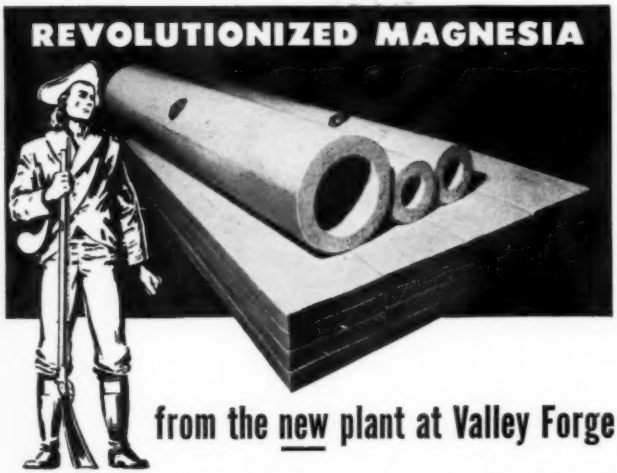

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